

## TWO NEW SPECIES OF ALLOGNOSTA FROM NINGXIA, CHINA (DIPTERA, STRATIOMYIDAE)

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**Abstract** Two species of the genus *Allognosta*, *A. flava* sp. nov. and *A. jingyuana* sp. nov., from Ningxia are described as new to science

**Key words** Diptera, Stratiomyidae, *Allognosta*, new species, Ningxia

*Allognosta* Meigen is characterized by the abdomen broad and distinctly depressed dorso-ventrally, abdominal tergites 2–6 each with subapical groove, scutellum without spines and mid tibia with an apical spur (Yang and Nagatomi 1992). It is distributed in the Nearctic, Palearctic, Oriental and Afrotropical Regions. The Palearctic and Oriental species were mainly studied by Frey (1961), James (1969), Nagatomi and Tanaka (1969), Rozkošný (1982), Yang and Nagatomi (1992). The Chinese species were mainly studied by Yang and Nagatomi (1992). Here two new species are described from Ningxia. The types are deposited in the Entomological Museum of China Agricultural University (CAU), Beijing.

### 1 *Allognosta flava* sp. nov. (Figs 1–3)

**Female** Body length 3.6–3.7 mm, wing length 3.6–4.0 mm.

Head subshiny black with thin, pale gray pollen, except anterior frons not shiny but very densely micropubescent. Frons distinctly projected beyond eyes. Eyes widely separated on frons, dark brown. Frons slightly wider than eye, cheek and lower occiput wide. Postocular ring moderately wide dorsally. Hairs on head pale; hairs on eyes sparse. Antenna black except flagellomere 1 dark brownish yellow; relative lengths of 3 antennal segments 5.0 : 4.5 : 18.0. Proboscis pale yellow, but partly black with blackish hairs; palpus blackish, apical segment (excluding base) dark yellow, with pale hairs.

Thorax black with pale gray pollen, but mesonotum and scutellum subshiny black. Humeri and postalar calli brownish yellow. Pleuron blackish to black. Hairs on thorax pale. Legs yellow or brownish yellow except coxae blackish, femora brown or dark brown apically, tibiae (except base) and tarsi (except mid and hind tarsomere 1) black. Hairs on legs pale

except tibiae with partly black hairs and tarsi with mostly black hairs. Wing nearly hyaline, tinged grayish along apex and longitudinal veins of apical half; stigma dark brown, cell  $R_{2+3}$  pale. Halter pale yellow or dark yellow.

Abdomen dark brown with pale gray pollen except cerci dark yellow. Hairs on abdomen pale.

**Male** Unknown.

**Holotype** ♀, Ningxia, Longde, Sutai, 2100 m, 24 June 2008. **LIU Jing-Xian**. **Paratypes** 2 ♀♀, Jingyuan, Dongshanpo, 2180 m, 22 June 2008, **YAO Gang** and **ZHANG Ting-Ting**.

**Etymology** The specific name refers to the yellow halter.

**Remarks** This new species is similar to *A. yanshana* Zhang, Li & Yang but may be separated from the latter by the postocular ring rather narrow dorsally, halter yellow and only hind tarsomere 1 brownish. In *A. yanshana*, the postocular ring is rather wide dorsally, the halter is dark brown with the dark yellow base and the hind tarsomeres 1–3 are dark yellow (Zhang, Li & Yang 2009).

### 2 *Allognosta jingyuana* sp. nov. (Figs 9–10)

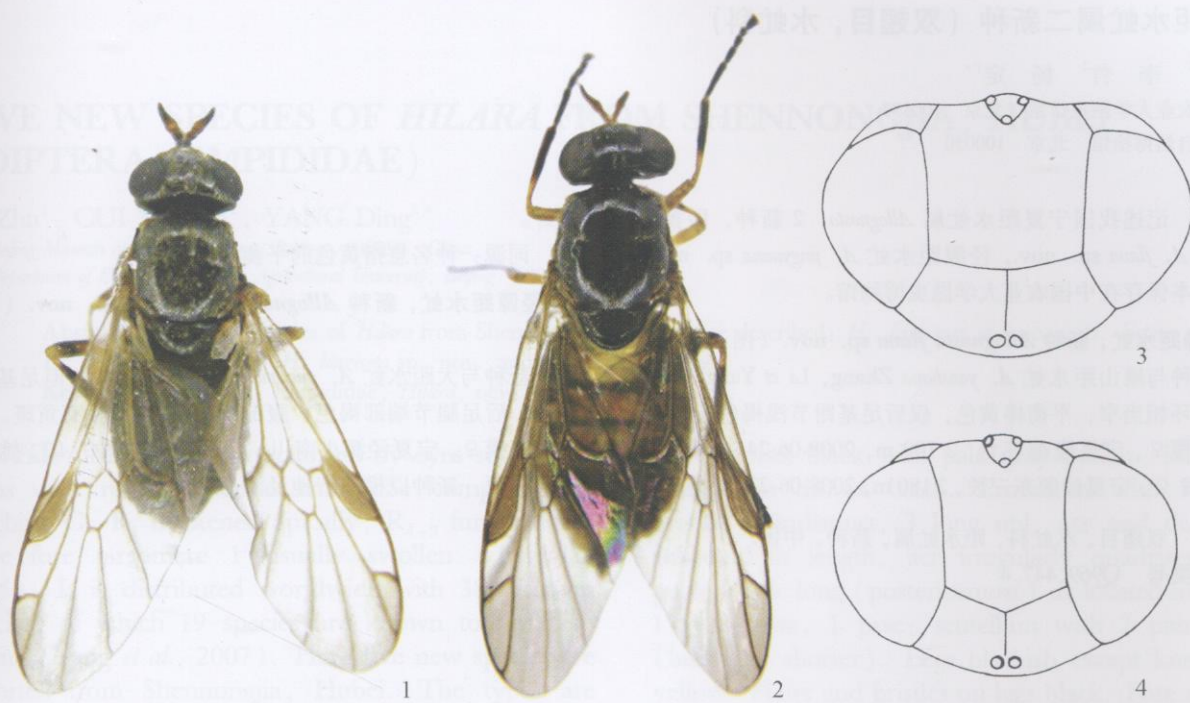
**Female** Body length 5.4 mm, wing length 5.0 mm.

Head subshiny black with thin, pale gray pollen, anterior frons not shiny but densely micropubescent. Frons slightly projected beyond eyes. Eyes widely separated on frons, reddish brown. Frons slightly wider than eye, cheek and lower occiput wide. Postocular ring rather narrow dorsally. Hairs on head pale; eyes nearly bare. Antenna dark brownish yellow except flagellum brownish with black apex; relative lengths of 3 antennal segments 3 : 4 : 22. Proboscis black with black hairs; palpus brown with pale hairs at basal segment and black with black hairs at apical segment.

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Figs 1, 3 *Allognosta flava* sp. nov. (female) Figs 2, 4 *Allognosta jingyuan* sp. nov. (female) 3–4 Head (female), dorsal view.

Thorax black with pale gray pollen, but mesonotum and scutellum subshiny black. Humeri and postalar calli brownish yellow. Pleuron blackish except laterotergite and metapleuron dark brownish yellow. Hairs on thorax pale. Legs dark yellow except hind femur brown apically, tibiae (except base) and tarsi black. Hairs on legs pale except tibiae and tarsi with black hairs. Wing tinged grayish, stigma dark brown, cell  $R_{2+3}$  pale. Halter black with dark yellow base.

Abdomen dark brown with pale grey pollen, except tergites 1–2 with yellow median spot (spot on tergite 1 wider). Hairs on abdomen pale.

Male Unknown

Holotype ♀, Ningxia, Jingyuan, Xiaonanduan, 2100 m, 3 July 2008, YAO Gang.

Etymology. The species is named after the type locality Jingyuan.

Remarks. This new species is somewhat similar to *A. maxima* Enderlein from Taiwan, but may be separated from the latter by the coxae brownish

yellow, hind femur brown apically, and only abdominal tergites 1–2 with the yellow spot. In *A. maxima*, the coxae are red brown, the hind femur is not dark apically, and the abdomen has more yellow spots (Yang & Nagatomi 1992).

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## 宁夏距水虻属二新种 (双翅目, 水虻科)

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**摘 要** 记述我国宁夏距水虻属 *Alognosta* 2新种, 即黄棒距水虻 *A. flava* sp. nov., 泾源距水虻 *A. jingyuana* sp. nov., 模式标本保存在中国农业大学昆虫博物馆。

**1 黄棒距水虻, 新种** *Alognosta flava* sp. nov. (图 1, 3)

新种与雁山距水虻 *A. yanshan* Zhang, Li et Yang 近似, 但眼后环相当窄, 平衡棒黄色, 仅后足基跗节浅褐色。

正模♀, 宁夏隆德苏台, 2100 m, 2008-06-24, 刘经贤。

副模 2♀, 宁夏泾源东三坡, 2180 m, 2008-06-22, 姚刚, 张

**关键词** 双翅目, 水虻科, 距水虻属, 新种, 中国。

**中图分类号** Q969.447.4

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**词源:** 种名意指黄色的平衡棒。

**2 泾源距水虻, 新种** *Alognosta jingyuana* sp. nov. (图 2, 4)

新种与大距水虻 *A. maxima* Enderlein 近似, 但足基节黄褐色, 后足腿节端部褐色, 腹部仅第 1~2 背板有黄斑。

正模♀, 宁夏泾源小南川, 2100 m, 2008-07-03, 姚刚。

**词源:** 新种以模式产地泾源命名。

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